

Suresh Mathivanan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

23,139
citations

48
h-index

116
g-index

116
ext. papers

28,709
ext. citations

8.9
avg, IF

6.81
L-index

#	Paper	IF	Citations
108	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , 2018 , 7, 1535750	16.4	3642
107	Human Protein Reference Database--2009 update. <i>Nucleic Acids Research</i> , 2009 , 37, D767-72	20.1	2372
106	Exosomes: extracellular organelles important in intercellular communication. <i>Journal of Proteomics</i> , 2010 , 73, 1907-20	3.9	1688
105	Minimal experimental requirements for definition of extracellular vesicles and their functions: a position statement from the International Society for Extracellular Vesicles. <i>Journal of Extracellular Vesicles</i> , 2014 , 3, 26913	16.4	1589
104	Vesiclepedia: a compendium for extracellular vesicles with continuous community annotation. <i>PLoS Biology</i> , 2012 , 10, e1001450	9.7	800
103	Exosomes: proteomic insights and diagnostic potential. <i>Expert Review of Proteomics</i> , 2009 , 6, 267-83	4.2	760
102	FunRich: An open access standalone functional enrichment and interaction network analysis tool. <i>Proteomics</i> , 2015 , 15, 2597-601	4.8	735
101	Comparison of ultracentrifugation, density gradient separation, and immunoaffinity capture methods for isolating human colon cancer cell line LIM1863-derived exosomes. <i>Methods</i> , 2012 , 56, 293-304	4.6	722
100	ExoCarta 2012: database of exosomal proteins, RNA and lipids. <i>Nucleic Acids Research</i> , 2012 , 40, D1241-4	20.1	715
99	ExoCarta: A Web-Based Compendium of Exosomal Cargo. <i>Journal of Molecular Biology</i> , 2016 , 428, 688-695	9.5	674
98	ExoCarta: A compendium of exosomal proteins and RNA. <i>Proteomics</i> , 2009 , 9, 4997-5000	4.8	626
97	EV-TRACK: transparent reporting and centralizing knowledge in extracellular vesicle research. <i>Nature Methods</i> , 2017 , 14, 228-232	21.6	560
96	Global proteomic profiling of phosphopeptides using electron transfer dissociation tandem mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2199-204	11.5	469
95	Focus on Extracellular Vesicles: Introducing the Next Small Big Thing. <i>International Journal of Molecular Sciences</i> , 2016 , 17, 170	6.3	432
94	Proteomics analysis of A33 immunoaffinity-purified exosomes released from the human colon tumor cell line LIM1215 reveals a tissue-specific protein signature. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 197-208	7.6	421
93	Comparative proteomics evaluation of plasma exosome isolation techniques and assessment of the stability of exosomes in normal human blood plasma. <i>Proteomics</i> , 2013 , 13, 3354-64	4.8	397
92	Analysis of the human protein interactome and comparison with yeast, worm and fly interaction datasets. <i>Nature Genetics</i> , 2006 , 38, 285-93	36.3	381

91	NetPath: a public resource of curated signal transduction pathways. <i>Genome Biology</i> , 2010 , 11, R3	18.3	331
90	A curated compendium of phosphorylation motifs. <i>Nature Biotechnology</i> , 2007 , 25, 285-6	44.5	300
89	Two distinct populations of exosomes are released from LIM1863 colon carcinoma cell-derived organoids. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 587-98	7.6	287
88	Exosomes in bodily fluids are a highly stable resource of disease biomarkers. <i>Proteomics - Clinical Applications</i> , 2015 , 9, 358-67	3.1	286
87	Vesiclepedia 2019: a compendium of RNA, proteins, lipids and metabolites in extracellular vesicles. <i>Nucleic Acids Research</i> , 2019 , 47, D516-D519	20.1	264
86	EVpedia: a community web portal for extracellular vesicles research. <i>Bioinformatics</i> , 2015 , 31, 933-9	7.2	256
85	Proteome profiling of exosomes derived from human primary and metastatic colorectal cancer cells reveal differential expression of key metastatic factors and signal transduction components. <i>Proteomics</i> , 2013 , 13, 1672-86	4.8	255
84	ExoCarta as a resource for exosomal research. <i>Journal of Extracellular Vesicles</i> , 2012 , 1,	16.4	240
83	A compendium of potential biomarkers of pancreatic cancer. <i>PLoS Medicine</i> , 2009 , 6, e1000046	11.6	217
82	Large oncosomes contain distinct protein cargo and represent a separate functional class of tumor-derived extracellular vesicles. <i>Oncotarget</i> , 2015 , 6, 11327-41	3.3	214
81	Plasma Proteome Database as a resource for proteomics research: 2014 update. <i>Nucleic Acids Research</i> , 2014 , 42, D959-65	20.1	212
80	A novel community driven software for functional enrichment analysis of extracellular vesicles data. <i>Journal of Extracellular Vesicles</i> , 2017 , 6, 1321455	16.4	200
79	Extracellular vesicles from neural stem cells transfer IFN- γ via Ifngr1 to activate Stat1 signaling in target cells. <i>Molecular Cell</i> , 2014 , 56, 193-204	17.6	195
78	A novel mechanism of generating extracellular vesicles during apoptosis via a beads-on-a-string membrane structure. <i>Nature Communications</i> , 2015 , 6, 7439	17.4	178
77	Extracellular vesicles including exosomes are mediators of signal transduction: are they protective or pathogenic?. <i>Proteomics</i> , 2015 , 15, 260-71	4.8	175
76	Proteogenomic analysis reveals exosomes are more oncogenic than ectosomes. <i>Oncotarget</i> , 2015 , 6, 15375-96	3.3	168
75	An evaluation of human protein-protein interaction data in the public domain. <i>BMC Bioinformatics</i> , 2006 , 7 Suppl 5, S19	3.6	168
74	Human Proteinpedia enables sharing of human protein data. <i>Nature Biotechnology</i> , 2008 , 26, 164-7	44.5	138

73	Plasma Proteome Database as a resource for proteomics research. <i>Proteomics</i> , 2005 , 5, 3531-6	4.8	118
72	Rapid and comprehensive 'shotgun' lipidome profiling of colorectal cancer cell derived exosomes. <i>Methods</i> , 2015 , 87, 83-95	4.6	108
71	CAF hierarchy driven by pancreatic cancer cell p53-status creates a pro-metastatic and chemoresistant environment via perlecan. <i>Nature Communications</i> , 2019 , 10, 3637	17.4	100
70	Ticket to a bubble ride: Cargo sorting into exosomes and extracellular vesicles. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 140203	4	93
69	Bovine milk-derived exosomes from colostrum are enriched with proteins implicated in immune response and growth. <i>Scientific Reports</i> , 2017 , 7, 5933	4.9	87
68	Proteomic Profiling of Exosomes Secreted by Breast Cancer Cells with Varying Metastatic Potential. <i>Proteomics</i> , 2017 , 17, 1600370	4.8	78
67	Human Proteinpedia: a unified discovery resource for proteomics research. <i>Nucleic Acids Research</i> , 2009 , 37, D773-81	20.1	72
66	Sengers Syndrome-Associated Mitochondrial Acylglycerol Kinase Is a Subunit of the Human TIM22 Protein Import Complex. <i>Molecular Cell</i> , 2017 , 67, 457-470.e5	17.6	69
65	Extracellular vesicles secreted by are involved in cell wall remodelling. <i>Communications Biology</i> , 2019 , 2, 305	6.7	64
64	Extracellular vesicles including exosomes in cross kingdom regulation: a viewpoint from plant-fungal interactions. <i>Frontiers in Plant Science</i> , 2015 , 6, 766	6.2	57
63	Extracellular Microvesicles: The Need for Internationally Recognised Nomenclature and Stringent Purification Criteria. <i>Journal of Proteomics and Bioinformatics</i> , 2012 , 05,	2.1	57
62	Tim29 is a novel subunit of the human TIM22 translocase and is involved in complex assembly and stability. <i>ELife</i> , 2016 , 5,	8.9	50
61	Label-Based and Label-Free Strategies for Protein Quantitation. <i>Methods in Molecular Biology</i> , 2017 , 1549, 31-43	1.4	47
60	Milk-Derived Extracellular Vesicles in Inter-Organism, Cross-Species Communication and Drug Delivery. <i>Proteomes</i> , 2020 , 8,	4.6	46
59	Extracellular vesicles containing oncogenic mutant Ectenin activate Wnt signalling pathway in the recipient cells. <i>Journal of Extracellular Vesicles</i> , 2019 , 8, 1690217	16.4	45
58	Identifying mutated proteins secreted by colon cancer cell lines using mass spectrometry. <i>Journal of Proteomics</i> , 2012 , 76 Spec No., 141-9	3.9	43
57	Proteomics profiling of Madin-Darby canine kidney plasma membranes reveals Wnt-5a involvement during oncogenic H-Ras/TGF-beta-mediated epithelial-mesenchymal transition. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M110.001131	7.6	43
56	Triton X-114 phase separation in the isolation and purification of mouse liver microsomal membrane proteins. <i>Methods</i> , 2011 , 54, 396-406	4.6	40

55	Extracellular Vesicles From the Cotton Pathogen <i>G. sp.</i> Induce a Phytotoxic Response in Plants. <i>Frontiers in Plant Science</i> , 2019 , 10, 1610	6.2	40
54	Exosomes from N-Myc amplified neuroblastoma cells induce migration and confer chemoresistance to non-N-Myc amplified cells: implications of intra-tumour heterogeneity. <i>Journal of Extracellular Vesicles</i> , 2019 , 8, 1597614	16.4	37
53	Colorectal cancer atlas: An integrative resource for genomic and proteomic annotations from colorectal cancer cell lines and tissues. <i>Nucleic Acids Research</i> , 2016 , 44, D969-74	20.1	37
52	Emerging role of extracellular vesicles in mediating cancer cachexia. <i>Biochemical Society Transactions</i> , 2018 , 46, 1129-1136	5.1	32
51	FunRich enables enrichment analysis of OMICs datasets. <i>Journal of Molecular Biology</i> , 2021 , 433, 1667476.5		29
50	Extracellular peptidases of the cereal pathogen <i>Fusarium graminearum</i> . <i>Frontiers in Plant Science</i> , 2015 , 6, 962	6.2	28
49	Regulation of the divalent metal ion transporter via membrane budding. <i>Cell Discovery</i> , 2016 , 2, 16011	22.3	27
48	Identification of Novel Phosphorylation Motifs Through an Integrative Computational and Experimental Analysis of the Human Phosphoproteome. <i>Journal of Proteomics and Bioinformatics</i> , 2011 , 4, 22-35	2.1	27
47	Extending gene ontology in the context of extracellular RNA and vesicle communication. <i>Journal of Biomedical Semantics</i> , 2016 , 7, 19	2.2	23
46	Arrestin-Domain Containing Protein 1 (Arrdc1) Regulates the Protein Cargo and Release of Extracellular Vesicles. <i>Proteomics</i> , 2018 , 18, e1800266	4.8	23
45	Insulin Mediated Activation of PI3K/Akt Signalling Pathway Modifies the Proteomic Cargo of Extracellular Vesicles. <i>Proteomics</i> , 2017 , 17, 1600371	4.8	23
44	Analysis of extracellular vesicles generated from monocytes under conditions of lytic cell death. <i>Scientific Reports</i> , 2019 , 9, 7538	4.9	22
43	Proteomic profiling of secretome and adherent plasma membranes from distinct mammary epithelial cell subpopulations. <i>Proteomics</i> , 2011 , 11, 4029-39	4.8	22
42	Inhibition of cathepsin proteases attenuates migration and sensitizes aggressive N-Myc amplified human neuroblastoma cells to doxorubicin. <i>Oncotarget</i> , 2015 , 6, 11175-90	3.3	21
41	BCL-2 family protein BOK is a positive regulator of uridine metabolism in mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15469-15474	11.5	20
40	Deletion of intestinal Hdac3 remodels the lipidome of enterocytes and protects mice from diet-induced obesity. <i>Nature Communications</i> , 2019 , 10, 5291	17.4	20
39	Secreted Tumor Antigens - Immune Biomarkers for Diagnosis and Therapy. <i>Proteomics</i> , 2017 , 17, 1600442.8	4.8	19
38	Oral administration of bovine milk-derived extracellular vesicles induces senescence in the primary tumor but accelerates cancer metastasis. <i>Nature Communications</i> , 2021 , 12, 3950	17.4	17

37	Tumor microenvironmental cytokines bound to cancer exosomes determine uptake by cytokine receptor-expressing cells and biodistribution. <i>Nature Communications</i> , 2021 , 12, 3543	17.4	16
36	Cortactin enhances exosome secretion without altering cargo. <i>Journal of Cell Biology</i> , 2016 , 214, 129-31	7.3	15
35	Proteogenomic analysis of the <i>Venturia pirina</i> (Pear Scab Fungus) secretome reveals potential effectors. <i>Journal of Proteome Research</i> , 2014 , 13, 3635-44	5.6	15
34	Autotransporter Adhesins in <i>Escherichia coli</i> Pathogenesis. <i>Proteomics</i> , 2017 , 17, 1600431	4.8	14
33	Human Proteinpedia as a resource for clinical proteomics. <i>Molecular and Cellular Proteomics</i> , 2008 , 7, 2038-47	7.6	14
32	Powerful differential expression analysis incorporating network topology for next-generation sequencing data. <i>Bioinformatics</i> , 2017 , 33, 1505-1513	7.2	13
31	The Protective Effect of Exercise in Neurodegenerative Diseases: The Potential Role of Extracellular Vesicles. <i>Cells</i> , 2020 , 9,	7.9	12
30	Exomeres: A New Member of Extracellular Vesicles Family. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 89-97	5.5	12
29	Bioinformatics Tools for Extracellular Vesicles Research. <i>Methods in Molecular Biology</i> , 2017 , 1545, 189-196	10.6	11
28	Tandem application of cationic colloidal silica and Triton X-114 for plasma membrane protein isolation and purification: towards developing an MDCK protein database. <i>Proteomics</i> , 2011 , 11, 1238-53	4.8	11
27	Proteomic resources: integrating biomedical information in humans. <i>Gene</i> , 2005 , 364, 13-8	3.8	10
26	Biogenesis of Extracellular Vesicles. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 19-43	5.5	9
25	Plexin B2 Is a Regulator of Monocyte Apoptotic Cell Disassembly. <i>Cell Reports</i> , 2019 , 29, 1821-1831.e3	10.6	8
24	TAGmapper: a web-based tool for mapping SAGE tags. <i>Gene</i> , 2005 , 364, 123-9	3.8	8
23	Proteotypic Peptides and Their Applications. <i>Methods in Molecular Biology</i> , 2017 , 1549, 101-107	1.4	8
22	Immunoprofiling of Breast Cancer Antigens Using Antibodies Derived from Local Lymph Nodes. <i>Cancers</i> , 2019 , 11,	6.6	7
21	Arrdc4-dependent extracellular vesicle biogenesis is required for sperm maturation. <i>Journal of Extracellular Vesicles</i> , 2021 , 10, e12113	16.4	6
20	Integrated Bioinformatics Analysis of the Publicly Available Protein Data Shows Evidence for 96% of the Human Proteome. <i>Journal of Proteomics and Bioinformatics</i> , 2014 , 07,	2.1	5

19	Quest for Cancer Biomarkers: Assaying Mutant Proteins and RNA that Provides the Much Needed Specificity. <i>Journal of Proteomics and Bioinformatics</i> , 2012 , 05,	2.1	4
18	Introduction to the Community of Extracellular Vesicles. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 3-18	5.5	4
17	Extracellular Vesicles in Metabolism and Metabolic Diseases. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 393-410	9.5	4
16	Sulfisoxazole does not inhibit the secretion of small extracellular vesicles. <i>Nature Communications</i> , 2021 , 12, 977	17.4	4
15	Unassigned MS/MS Spectra: Who Am I?. <i>Methods in Molecular Biology</i> , 2017 , 1549, 67-74	1.4	3
14	Network Tools for the Analysis of Proteomic Data. <i>Methods in Molecular Biology</i> , 2017 , 1549, 177-197	1.4	3
13	A High-Resolution Mass Spectrometry-Based Quantitative Metabolomic Workflow Highlights Defects in 5-Fluorouracil Metabolism in Cancer Cells with Acquired Chemoresistance. <i>Biology</i> , 2020 , 9,	4.9	3
12	Integration of heterogeneous omics data using semi-supervised network labelling to identify essential genes in colorectal cancer. <i>Computers and Electrical Engineering</i> , 2018 , 67, 267-277	4.3	3
11	The Role of Post-Translational Modifications in Targeting Protein Cargo to Extracellular Vesicles. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 45-60	5.5	3
10	Proteomic Data Storage and Sharing. <i>Methods in Molecular Biology</i> , 2017 , 1549, 5-15	1.4	2
9	Extracellular Vesicles from Neural Stem Cells Transfer IFN- γ via Ifngr1 to Activate Stat1 Signaling in Target Cells. <i>Molecular Cell</i> , 2014 , 56, 609	17.6	2
8	Temporal Quantitative Proteomics Analysis of Neuroblastoma Cells Treated with Bovine Milk-Derived Extracellular Vesicles Highlights the Anti-Proliferative Properties of Milk-Derived Extracellular Vesicles. <i>Cells</i> , 2021 , 10,	7.9	2
7	Are Dietary Extracellular Vesicles Bioavailable and Functional in Consuming Organisms?. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 509-521	5.5	2
6	K-29 linked ubiquitination of Arrdc4 regulates its function in extracellular vesicle biogenesis.. <i>Journal of Extracellular Vesicles</i> , 2022 , 11, e12188	16.4	1
5	Pannexin-1 channel regulates nuclear content packaging into apoptotic bodies and their size. <i>Proteomics</i> , 2021 , 21, e2000097	4.8	1
4	Repurposing of Antibiotic Sulfisoxazole Inhibits Lipolysis in Pre-Clinical Model of Cancer-Associated Cachexia. <i>Biology</i> , 2021 , 10,	4.9	1
3	Engineering Extracellular Vesicles for Cancer Therapy. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 375-392	5.5	1
2	Extracellular Vesicles Regulate Cancer Metastasis. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 275-296	5.5	0

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Deubiquitinase enzyme STAMPB plays a broad role in both Toll-like and Nod-like receptor mediated inflammation. *European Journal of Inflammation*, **2020**, 18, 205873922096084

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